

RAW SEQUENCE LISTING

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Application Serial Number: 10/525,682

Source: PCT

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DATE: 03/08/2005

PATENT APPLICATION: US/10/525,682

TIME: 10:02:34

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3 <110> APPLICANT: BASF PLANT SCIENCE GMBH
4     DNA LANDMARKS, INC.
5     LAI, FANG-MING
6     LANDRY, BENOIT S.
8 <120> TITLE OF INVENTION: MALE FERTILITY RESTORATION AS A SELECTABLE MARKER IN
9     PLANT TRANSFORMATION
11 <130> FILE REFERENCE: 16313-0238
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/525,682
C--> 14 <141> CURRENT FILING DATE: 2005-02-23
16 <150> PRIOR APPLICATION NUMBER: 60/405,654
17 <151> PRIOR FILING DATE: 2002-08-23
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1272
25 <212> TYPE: DNA
26 <213> ORGANISM: Saccharomyces cerevisiae
28 <400> SEQUENCE: 1
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31 ttatggttga tgattacaca taacggaaca gcaatcaaga gagccacatt catgagctat 180
32 aatactatca taagcaattc gctgagtttc gatattgtca ataaatcact ccagtttaaa 240
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43 agatcgtaca ataaagcttt gaagaaaaat gcgccttatt caatctttgc tataaaaaat 900
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46 acaacgtata ctcacagat aacagcaata cctgatcact acttcgcact agtttctcgg 1080
47 tactatgcat atgatccaat atcaaaggaa atgatagcat tgaaggatga gactaatcca 1140
48 attgaggagt ggcagcatat agaacagcta aagggtagt ctgaaggag catacgatac 1200
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53 <210> SEQ ID NO: 2
54 <211> LENGTH: 1553
55 <212> TYPE: DNA

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58 <220> FEATURE:

59 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
60 nucleotide sequence for Cre recombinase

62 <400> SEQUENCE: 2

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65 accttagcag gtcaaatagt gaccacttga tcattttgatc aaggttgcg c tacgtaaaat 180
66 ctgtgaaaaa ttggcgggtg tagtcctaca gattttcgcg accacttagc accaccaatc 240
67 aatcagaggt gaaaaatggg atattcaact gctaaagtgt ccatcatct tgagcttgag 300
68 aaaaaccgtg gttactggcg ggcaaaaggg tttgatcgtg atagttgcc actgtcatta 360
69 tcgcgcggtg aagagaaaaat agaacgcacg cgcggtcgct ggcgtttcta tgacgagaac 420
70 cataaacagg taaaggcaga gccgatcctg tacactttac ttaaaacct tatctgagt 480
71 ttaaatgtcc aattttactga ccgtacacca aaatttgctt gcattaccgg tcgatgcaac 540
72 gagtgatgag gttcgcaaga acctgatgga catgttcagg gatcgccagg cgttttctga 600
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85 tggtcagaga tacctggcct ggtctggaca cagtgcccggt gtcggagccg cgcgagatat 1380
86 ggcccgcgct ggagtttcaa taccggagat catgcaagct ggtggctgga ccaatgtaaa 1440
87 tattgtcatg aactatattc gtaacctgga tagtgaaaca ggggcaatgg tgccgctgct 1500
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93 <212> TYPE: DNA

94 <213> ORGANISM: Streptomyces sp.

96 <400> SEQUENCE: 3

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99 gtcgagcgcg acggggggccg gttcagggtt gtcgggcatt tcagcgaagc gccggggcacg 180
100 tcggcggttc ggacggcgga gcgcccggag ttcgaaacga tcctgaacga atgccgcgcc 240
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102 gacgcgattc cgattgtctc ggaattgttc gccctgggag tgacgattgt ttccactcag 360
103 gaaggcgtct tccggcaggg aaacgtcatg gacctgattc acctgattat gcggctcgac 420
104 gcgtcgcaaa agaattcttc gctgaagtgc gcgaagattc tcgacacgaa gaaccttcag 480
105 cgcgaattgg gcgggtacgt cggcggggaa gcgccttacg gcttcgagct tgtttcggag 540
106 acgaaggaga tcacgcgcaa cggccgaatg gtcaatgtcg tcatcaacaa gcttgcgca 600
107 tcgaccactc cccttaccgg acccttcgag ttcgagcccg acgtaatccg gtgggtggtgg 660
108 cgtgagatca agacgcacaa acaccttccc ttcaagccgg gcagtcaagc cgccattcac 720
109 ccgggcagca tcacgggggt ttgtaagcgc atggacgctg acgccgtgcc gacccggggc 780

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112 ggcacgccga ccacgaagat tgagggttac cgcattcagc gcgacccgat cagctccgg 960
113 ccggtcgagc ttgattgcgg accgatcatc gagcccgtcg agtggatatga gcttcaggcg 1020
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115 atggacaagc tgtactgcga gtgtggcgcc gtcactgactt cgaagcgcg ggaagaatcg 1140
116 atcaaggact cttaccgctg ccgtcgccgg aagggtggtcg acccgctccgc acctgggcag 1200
117 cacgaaggca cgtgcaacgt cagcatggcg gcactcgaca agttcgttgc ggaacgcac 1260
118 ttcaacaaga tcaggcacgc cgaaggcgac gaagagacgt tggcgcttct gtgggaagcc 1320
119 gcccgcagct tcggcaagct cactgaggcg cctgagaaga gcggcgaacg ggcgaacctt 1380
120 gttgcggagc gcgccgacgc cctgaacgcc cttgaagagc tgtacgaaga ccgcgcggca 1440
121 ggcgctacg acggaccctg tggcaggaag cacttccgga agcaacaggc agcgctgacg 1500
122 ctccggcagc aaggggcgga agagcggctt gccgaacttg aagcccgcca agcccgaag 1560
123 cttccccttg accaatgggt ccccgaaagc gccgacgctg acccgaccgg ccctaagtcg 1620
124 tgggtggggc gcgcgtcagt agacgacaag cgcggtgttcg tcgggctctt cgtagacaag 1680
125 atcgttgtca cgaagtcgac tacgggcagg gggcagggaa cgcccatcga gaagcgcgct 1740
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131 <211> LENGTH: 1473
132 <212> TYPE: DNA
133 <213> ORGANISM: Zygosaccharomyces rouxii
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138 gagaaccctt tacctaagga aaaactagcc tcccatctga cgatgataat tttgatggcc 180
139 aatttggcga gtcagaaaag aaaggacgtt cctgtcaagc gctccacttt cttgaaatac 240
140 cacaggtcta tttcaaaaac attgcaatac gattcttcca ctaaacgggt atcctttgaa 300
141 taccatttga aagacccaag taagctaata aaaggactcg aagatgttgt atcgccctat 360
142 agatttgttg tgggggtaca cgaaaagcct gatgatgtaa tgagtcattt atctgctgta 420
143 catatgagaa aggaagcagg tcggaaaaga gatttgggta acaagattaa tgatgaaatc 480
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145 atagaagcta gaactactcg gcctacaaca aaagccgcgt acaatctttt gcttcaggcg 600
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153 aattggtctg ccgcgcggga agaagggtgt agccgtgtgg ctaaggctcg atacatgcac 1080
154 acgatagaaa agagtcggcc ttcttattta tttgcgtttc tatcggggtt ttataatatc 1140
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159 gggagaactg cactttataa cgcgttaaac gcggcacatg tgaagcgccg aaagattagc 1440
160 attgtcgtcg gacgatccat cgacacctcc tga                                     1473
163 <210> SEQ ID NO: 5

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164 <211> LENGTH: 582
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
170     nucleotide sequence for Gin recombinase
172 <400> SEQUENCE: 5
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175 gaccgaccgg gattaaaacg cgcttttaaag cgccttcaaa aaggtagacac actggttgtc 180
176 tggaaactgg atcgctcgg gcgaagcatg aaacatttga tttctctcgt aggggaatta 240
177 cgagagcgag ggattaattt tcgcagtcct actgacagta ttgatacgtc atctccaatg 300
178 gggcgttttt tcttccacgt tatgggtgcc ctggctgaaa tggaacgaga actaattatc 360
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181 cgcaagcagg ttgcattgat ctacgatgtg gccctgtcaa ctctgtataa aaaacacccc 540
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190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192     nucleotide sequence for Beta-recombinase
194 <400> SEQUENCE: 6
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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date